## ABSTRACT

There are provided a phase change-type memory element, which can reduce a reset pulse current value necessary for returning the phase state from an ON state 5 to an OFF state, can improve integration density, is not restricted by the process temperature at the time of the production thereof, and can be simply produced, and a process for producing the same. The phase change-type element comprises: electrodes two more 10 memory orprovided opposite to each other through an insulating layer; an exposed surface on which at least a part of the insulating layer and at least a part of each of the electrodes are exposed; and a phase change recording material layer provided, on the exposed surface, 15 contact with the at least two electrodes. The production process of the phase change-type memory comprises the steps of: providing two or more electrodes opposite to each other through an insulating material; forming an exposed surface on which at least a part of 20 the insulating material and at least a part of each of the electrodes are exposed; and forming a phase change recording material layer on the exposed surface so as to be in contact with at least two of the electrodes.